

APPLICATION FOR UNITED STATES LETTERS PATENT

for

Electronic Stockroom and Catalog

by

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009707-45005960

Attorney's Docket No. 1411(SURA)

BACKGROUND OF THE INVENTION

The present invention relates generally to the field of electronic commerce and more specifically to a method of optimizing the purchasing process within a centralized or dispersed company or organization.

It is common for businesses to keep a stockroom of items that are required for their daily activities. For most businesses, these stocked items consist mainly of paper products and business machine refills: notepads, computer paper, printer ink cartridges and toner for copy machines. Such stockrooms may also include other items like paperclips and staples however, they do not include all of the items the entire business will need for production of its product or service. In order to acquire all of the materials a business needs, usually a purchaser or other employee must refer to one or more vendor catalogs.

Business product catalogs come in many different shapes, sizes and in regards to computer related item, formats. In order to stay competitive and to take advantage of electronic commerce most vendors and producers have made their product catalogs available in some electronic form. These electronic catalogs may come in the form of a Compact Disc (CD) that can be distributed to customers or the catalog information may be stored in a server that customers can access via the Internet.

In both of these cases a vendor must invest money in the production of the electronic catalogs. All of the vendor's product information must first be stored in electronic format. Then the information must be stored on a CD or in the memory of a server. In the case of a CD, the vendor must pay for mass copying of the CD followed by mass distribution, which includes gathering address information on potential customers and postage charges. When the vendor is ready to publish a new catalog, or just wants to make changes to a few items in the old catalog, the vendor must make, copy and distribute an entirely

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new CD. If the vendor chooses to put their catalog on-line, then they must involve themselves in setting up a website and absorb all of the costs associated with establishing and maintaining the website.

Websites typically reside on the World Wide Web, in a server for example, that is accessed via the Internet from a remote location. Multimedia documents found on the World Wide Web are called Web pages. Linking information together with hyperlinks is accomplished by special computer programs or computer languages. Computer languages used to create Web pages are HyperText Markup Language (HTML) and JAVA. A multimedia device should have a keyboard and a pointing device, such as a mouse or pen, so that the user can direct the associations between multimedia elements.

Photographs, drawings, and other still images must be changed into a format that the computer can manipulate and display. Such formats include bit-mapped graphics and vector graphics. Bit-mapped graphics store, manipulate, and represent images as rows and columns of tiny dots. In a bit-mapped graphic, each dot has a precise location described by its row and column, much like each house in a city has a precise address. Some of the most common bit-mapped graphics formats are called Graphical Interchange Format (GIF), Tagged Image File Format (TIFF), and Windows Bitmap (BMP). Vector graphics use mathematical formulas to recreate the original image. In a vector graphic, the dots are not defined by a row-and-column address, rather they are defined by their spatial relationships to one another. Because their dot components are not restricted to a particular row and column, vector graphics can reproduce images more easily and thus provide better output on most video screens and printers. Common vector graphics formats are Encapsulated Postscript (EPS), Windows Metafile Format (WMF), Hewlett-Packard Graphics Language (HPGL), and Macintosh graphics file format (PICT).

A modem, which stands for modulator-demodulator, is the device that

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ordered from a vendor. Generally speaking, the ESAC operates within the security of a company firewall and access is not available to unauthorized personnel or the general public who may try to access ESAC via the Internet.

BRIEF DESCRIPTION OF THE DRAWINGS

The preferred embodiment will now be described in more detail with reference to the accompanying drawings, given only by way of example, in which:

Figure 1 is a generalized block diagram of the preferred embodiment;

Figure 2 is a general flow chart for the preferred embodiment; and

Figure 3 is flow chart for the vendor catalog download process.

DETAILED DESCRIPTION OF THE INVENTION

The present Electronic Stockroom and Catalog (ESAC) embodies the notion of a comprehensive distributor by providing access to products both within a company and outside the company, while operating within the safety of a secure corporate firewall. Because of the security provided, the preferred embodiment enjoys full integration with corporate budget, finance and accounting systems, while retaining all the benefits of having access to the Internet. Integration with other company files allows automated budget tracking, payment for purchases and other desired accounting.

Figure 1 shows employee(s) 3-5 of a company using the preferred embodiment. Each of the employees 3-5 has determined that it is necessary to locate or purchase an item that is needed in the course of their business. Employees 3-5 may be within the same building or dispersed throughout several buildings. In both cases their terminals are connected by a LAN that makes up the company's intranet. Server 2 stores and executes the Electronic Stockroom and Catalog (ESAC) program. The server 2 is physically located within one of

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